PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WA 2468-03WO	FOR FURTHER ACTIO	ON See Form PCT/IPEA/416							
International application No.		ay/month/year) Priority date (day/month/year)							
PCT/EP2004/002961 20.03.200		22.07.2003							
International Patent Classification (IPC) or national classification and IPC									
F15D1/06, F15D1/04									
Applicant WOBBEN, Aloys									
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a tota	l of	sheets, including this cover sheet.							
3. This report is also accompanied									
a. (sent to the applican	nt and to the International Bureau)	a) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
	onal Bureau only) a total of (indic	icate type and number of electronic carrier(s))							
		, containing a sequence listing and/or tables							
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This report contains indications	relating to the following items:								
Box No. I Basis	of the report								
Box No. II Priori	ty								
Box No. III Non-e	stablishment of opinion with regar	ard to novelty, inventive step and industrial applicability							
Box No. IV Lack	of unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Box No. VI Certain documents cited									
Box No. VII Certai	in defects in the international appli-	lication							
Box No. VIII Certai	in observations on the international	al application							
Date of submission of the demand	Date	te of completion of this report							
Name and mailing address of the IPEA/EP		thorized officer							
Facsimile No.	Talas	enhane Na							

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/002961

Вох	No. I	Basis of the report						
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 							
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
		international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12.4)						
		international preliminary examination (Rule 55.2 and/o	r 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
ļ	X	the international application as originally filed/furnished						
		the description:						
		pages 1-7						
İ	~	pages*	received by this Authority on					
	\bowtie	the claims:						
		nos.		as originally filed/furnished				
		nos.*	as amended (togethe	er with any statement) under Article 19				
		nos.* 1	received by this Authority on	19.05.2005 with letter of 18.05.2005				
		nos.*	received by this Authority on					
	\boxtimes	the drawings:						
		sheets 1/4-4/4		as originally filed/furnished				
		sheets*						
		sheets*						
1	님	a sequence listing and/or any related table(s) - see Suppleme	ntal Box Relating to Sequence L	asting.				
3.	Ш	The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amendathey have been considered to go beyond the disclosure as file						
		the description, pages						
		the claims, nos.	· · · - · · · · · · · · · · · · · · · ·					
		the drawings, sheets/figs						
		the sequence listing (specify):						
L.	If ite	em 4 applies, some or all of those sheets may be marked "supe						

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY				REPORT ON PATENTABILITY	PCT/EP2004/002961		
				rticle 35(2) with regard to novelty, inventive sporting such statement	step or industrial applicability;		
1.	Statement						
	Novelty	(N)	Claims			YES	
			Claims	1		NO	
	Inventive step (IS)					1000	
			Claims Claims	1		YES NO	
			Ciains				
	Industrial applicability (IA)		Claims	1		_ YES	
			Claims			_ NO	
2.	Citations an	d explanations (Rule	70.7)				
	Claim	1					
	1.	Claim 1 i	s not	clear (PCT Article 6), since		
	neither the claim nor the description contains						
	information relating to the type of flow (lam.						
	or turbulent) or						
	(compressible, non-compressible, Newtonian, non-						
		Newtonian fluid). The current feature combinatio					
		thus leaves a person skilled in the art completely					
	unclear as to the actual scope of protection.				rotection.		
	Although one example (see page 6, lines 24-30)						
		mentions	water	as fluid, the descri	ption (page 4,		
	lines 2-		l0) cl	early states that the	: invention also		
		relates t	o mul	tiphase flows and mix	tures.		
	2.	It has lo	ong be	een known in the art t	hat during the		
		turbulent	flow	of Newtonian fluids,	a helical-type		
			defined by the featur				

- in certain areas can lead to a reduction in frictional pressure loss (see, for example, DE-A-2156578).
- The subject matter of the invention is

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International application No.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

industrially applicable.

Miscellaneous

4. The applicant should also note that information which concerns the subject matter of the invention (e.g. further details relating to the advantages of the invention or to the problems to be solved), but which has no basis in the original application, should at best be included in the letter of response but not in the application (PCT Article 34(2)(b)).